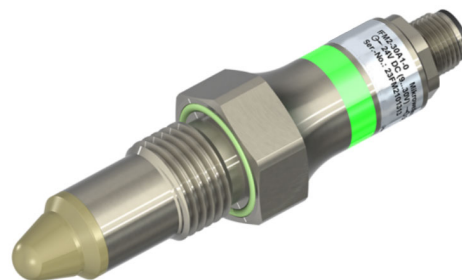


IFM2



Datasheet Microwave Level Switch FM2

PERFORMANCE FEATURES

- Microwave level switch for media with > 20% water content
- Not influenced by foam or adhesions
- Hygienic installation in accordance with EHEDG
- Wetted parts compatible with FDA requirements
- Vibration resistant
- LED indicator

AREAS OF APPLICATION

- Intended for use in closed stainless steel containers
- Liquid media
- Industrial water applications
- Safety shutdowns
- Hygiene applications

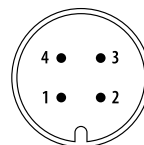
The IFM2 level switch also detects non-conductive media using high frequency microwaves. Foam and build-up re-main undetected until the level reaches the measuring tip. By avoiding hidden edges and dead spaces, optimal cleaning and maintenance can be ensured. Various elec-trical connection options and a switching output allow easy integration. Dust and water ingress is reliably pre-vented by IP 67 protection. Feel free to contact us if you need a customization that is not listed in this datasheet.

TECHNICAL DATA

Function	
Contact output Max function „low in air“ / Min function „high in air“	
Output	
Switching output	DC PNP, max. 200 mA
Power supply	
Voltage	9...30 V DC
Signal characteristics	
Switch-on time	ca. 1 s
Temperature and pressure range	
Medium temperature	0...135 °C
Surrounding temperature	-10...80 °C
Storage temperature	-40...85 °C
Pressure	max. 16 bar
Electrical protections	
Short-circuit resistance	Permanent
Reverse polarity protection	Protection against reverse polarity, but no function
Electromagnetic compatibility	Interference emissions and immunity acc. to EN 61326
Wetted materials	
Housing	Stainless steel 1.4404
Measuring tip	Plastic PEEK
Surroundings	
Protection type	IP 67
Exemplary weight	
IFM2-301A-0 (figure p. 1)	Approx. 150 g

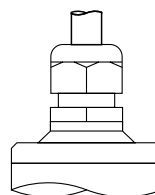
ELECTRICAL CONNECTION

M12 connector



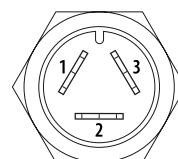
PIN 1:	in +
PIN 3:	in -
PIN 4:	out + Max-function
PIN 2:	out + Min-function

cable connection



rd:	in +
bk:	in -
wh:	out + Max-function
br:	out + Min-function

Quickon



PIN 1:	in +
PIN 3:	in -
PIN 2:	out + Max-funktion (or customer specific Min-function on PIN 2)

ORDERING CODE

Process connection and material

3 G1/2 A, ISO 228-1, 1.4404

Material measuring tip

0 PEEK

Process gasket

- 1 FPM (Viton), Standard
- 2 NBR (Perbuan)
- 3 EPDM
- 5 FFKM (Chemraz/ Kalrez)

Electrical connection

- A Connector M12x1 4-polig
- F Quickon
- 6 2 m cable
- 0 5 m cable
- H 10 m cable
- 9 others (on request)

Options

- 1 Quickon Min function

IFM2- -

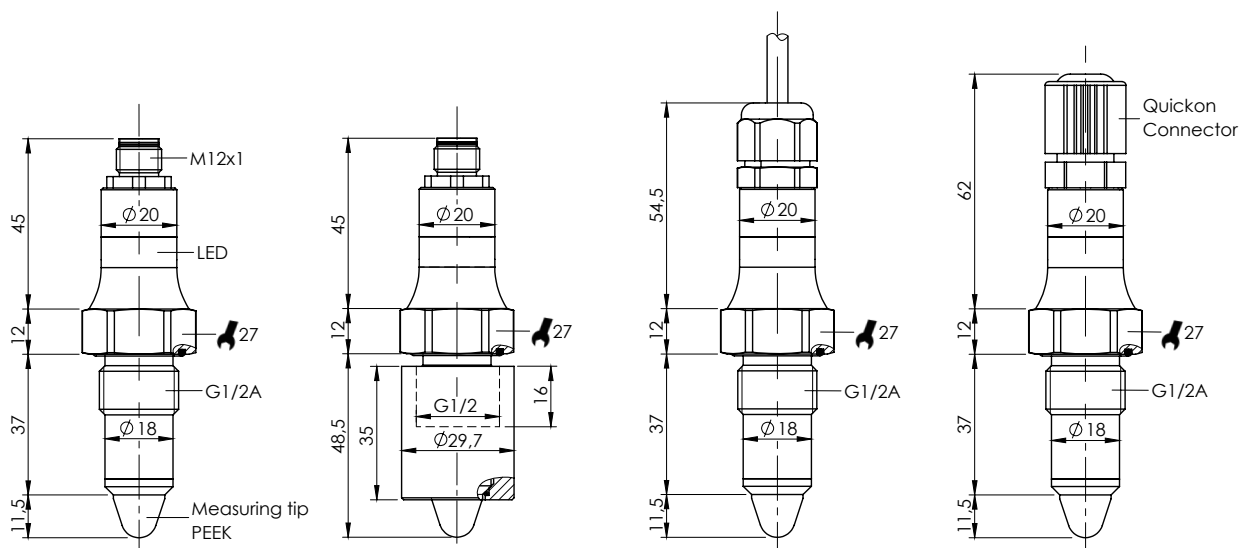
ACCESSORIES

Adapter and weld-on coupling

- 1086-01 weld-on coupling Ø 30 mm, with Viton seal, 1.4404 (316L)
- 1086-09 weld-on coupling Ø 30 mm, with metallic hygienic seal, 1.4404 (316L)
- 1086-11 Clamp 1", DN 25...40, 1.4404 (316L)
- 1086-13 Dairy thread DN 25 DIN 11851, 1.4404 (316L)
- 1086-14 Dairy thread DN 32 DIN 11851, 1.4404 (316L)
- 1086-15 Dairy thread DN 40 DIN 11851, 1.4404 (316L)
- 1086-08 Adapter G 1, 1.4404 (316L)

Other adapters on request

DIMENSIONS



EL. CONNECTION

TYPE A

TYPE A
+ WELD-ON COUPLING
1086-01
+ O-RING 13,5X1,5 VI70

TYPE 0,6,H

TYPE F